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4	5998	(interior) near3 (decorat\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 16:33
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6	12	(interact\$5) near3 (interior internal room home house furniture) adj (Decorat\$5 design layout)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 16:48
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-	2837	computer adj generated adj imag\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/15 16:28
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-	386	345/848,849,850,775,852.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 11:43
-	19	345/848,849,850,775,852.ccls. and ((room home interior) near5 (decorat\$5 design\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 11:46
-	67	703/1,2,7,8.ccls. and ((room home interior) near5 (decorat\$5 design\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 11:54
-	9	700/98.ccls. and ((room home interior) near5 (decorat\$5 design\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 11:55
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-	2	5986675.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 12:50
-	2	6016147.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 12:50
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-	131	((browser internet website web) adj (base\$5 assist\$5 offer\$5)) same ((inter\$5 room house home dwell\$5 kitchen bedroom living dining bathroom) adj2 (design\$5 decorat\$5 furnish\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 13:43
-	185	((browser internet website web) adj (base\$5 assist\$5 offer\$5)) near10 ((inter\$5 room house home dwell\$5 kitchen bedroom living dining bathroom) near5 (design\$5 decorat\$5 furnish\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 13:44
-	153	((browser internet website web) adj (base\$5 assist\$5 offer\$5)) near3 ((inter\$5 room house home dwell\$5 kitchen bedroom living dining bathroom) near5 (design\$5 decorat\$5 furnish\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 13:46
-	4	((browser internet website web) adj (base\$5 assist\$5 offer\$5)) adj ((inter\$5 room house home dwell\$5 kitchen bedroom living dining bathroom) adj (design\$5 decorat\$5 furnish\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 13:49
-	3	((browser internet website web) adj (base\$5 assist\$5 offer\$5)) adj2 ((inter\$5 room house home dwell\$5 kitchen bedroom living dining bathroom) adj2 (design\$5 decorat\$5 furnish\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 13:50

-	5	((browser internet website web) adj (base\$5 assist\$5 offer\$5)) adj5 ((interi\$5 room house home dwell\$5 kitchen bedroom living dining bathroom) adj5 (design\$5 decorat\$5 furnish\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 13:51
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-	2	6173278.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 13:56
-	2	6192150.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 16:28

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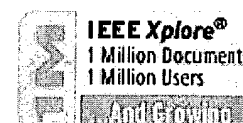
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*Matsumoto, S.; Fujiya, M.;*

 Advanced Intelligent Mechatronics '97., IEEE/ASME International Conference on , 16-20 June 1997  
 Pages:37

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**2 V<sup>2</sup>ID: virtual visual interior design system**
*Zhibin Lei; Yufeng Liang; Weicong Wang;*

 Acoustics, Speech, and Signal Processing, 1999. ICASSP '99. Proceedings., 1999 IEEE International Conference on , Volume: 6 , 15-19 March 1999  
 Pages:3053 - 3056 vol.6

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**3 The heaven and earth virtual reality: Designing applications for nov users**
*Fairchild, K.M.; Lee, B.H.; Loo, J.; Ng, H.; Serra, L.;*

Virtual Reality Annual International Symposium, 1993., 1993 IEEE , 18-22 Sep 1993

Pages:47 - 53

[\[Abstract\]](#)   [\[PDF Full-Text \(568 KB\)\]](#)   IEEE CNF

**4 Generalized functional and decorative filleting and blending operati**
*Elber, G.;*

Shape Modeling International, 2003 , 12-15 May 2003

Pages:13 - 22

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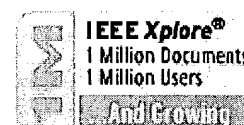
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1 **Field-weakening performance of interior permanent-magnet motors***Soong, W.L.; Ertugrul, N.;*

Industry Applications, IEEE Transactions on , Volume: 38 , Issue: 5 , Sept.-O 2002

Pages:1251 - 1258

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2 **V<sup>2</sup>ID: virtual visual interior design system***Zhibin Lei; Yufeng Liang; Weicong Wang;*

Acoustics, Speech, and Signal Processing, 1999. ICASSP '99. Proceedings., 1999 IEEE International Conference on , Volume: 6 , 15-19 March 1999

Pages:3053 - 3056 vol.6

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3 **Mechanical Design Considerations for Conventionally Laminated, High-Speed, Interior PM Synchronous Machine Rotors***Lovelace, E.C.; Jahns, T.M.; Keim, T.A.; Lang, J.H.;*

Industry Applications, IEEE Transactions on , Volume: 40 , Issue: 3 , May-Jun 2004

Pages:806 - 812

[\[Abstract\]](#)   [\[PDF Full-Text \(392 KB\)\]](#)   IEEE JNL
4 **Representing spatial knowledge in design***Fung, W.L.; Chun, H.W.;*

TENCON '92. Technology Enabling Tomorrow : Computers, Communications &amp; Automation towards the 21st Century. 1992 IEEE Region 10 International

Conference. , 11-13 Nov. 1992  
Pages:700 - 704 vol.2

[[Abstract](#)] [[PDF Full-Text \(276 KB\)](#)] IEEE CNF

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**5 Design of a new axially-laminated interior permanent magnet moto**  
*Soong, W.L.; Staton, D.A.; Miller, T.J.E.;*  
Industry Applications, IEEE Transactions on , Volume: 31 , Issue: 2 , March-A  
1995  
Pages:358 - 367

[[Abstract](#)] [[PDF Full-Text \(964 KB\)](#)] IEEE JNL

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**6 Study on surface roughness and gloss of interior design materials**  
*Matsumoto, S.; Fujiya, M.;*  
Advanced Intelligent Mechatronics '97., IEEE/ASME International Conference  
on , 16-20 June 1997  
Pages:37

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**7 A modified interior point method for supervisory controller design**  
*Szymanski, P.T.; Lemmon, M.;*  
Decision and Control, 1994., Proceedings of the 33rd IEEE Conference on , Vc  
2 , 14-16 Dec. 1994  
Pages:1381 - 1386 vol.2

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**8 Design of a short-time rating interior permanent magnet synchro**  
**motor using a niching genetic algorithm**  
*Dong-Hyeok Cho; Hyun-Kyo Jung; Tae-Kyung Chung; Cheol-Gyun Lee;*  
Magnetics, IEEE Transactions on , Volume: 36 , Issue: 4 , July 2000  
Pages:1936 - 1940

[[Abstract](#)] [[PDF Full-Text \(76 KB\)](#)] IEEE JNL

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**9 Impact of saturation and inverter cost on interior PM synchronous  
machine drive optimization**  
*Lovelace, E.C.; Jahns, T.M.; Lang, J.H.;*  
Industry Applications, IEEE Transactions on , Volume: 36 , Issue: 3 , May-Jur  
2000  
Pages:723 - 729

[[Abstract](#)] [[PDF Full-Text \(196 KB\)](#)] IEEE JNL

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**10 Multiobjective optimal design of interior permanent magnet  
synchronous motors considering improved core loss formula**  
*Dong-Hyeok Cho; Hyun-Kyo Jung; Dong-Joon Sim;*  
Energy Conversion, IEEE Transactions on , Volume: 14 , Issue: 4 , Dec. 1999  
Pages:1347 - 1352

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**11 Efficiency optimization of interior permanent magnet synchronous motor using genetic algorithms**

*Dong-Joon Sim; Dong-Hyeok Cho; Jang-Sung Chun; Hyun-Kyo Jung; Tae-Kyo Chung;*

Magnetics, IEEE Transactions on , Volume: 33 , Issue: 2 , March 1997

Pages:1880 - 1883

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**12 'Digitized sunshine' aids architects**

*Stix, G.;*

Spectrum, IEEE , Volume: 25 , Issue: 3 , March 1988

Pages:46 - 49

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**13 An investigation of a segmented rotor interior permanent magnet machine for field weakening**

*Rahman, F.; Dutta, R.;*

Power Electronics and Drive Systems, 2003. PEDS 2003. The Fifth International Conference on , Volume: 1 , 17-20 Nov. 2003

Pages:491 - 496 Vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(502 KB\)\]](#) [IEEE CNF](#)

**14 A new rotor design of interior permanent magnet machine suitable wide speed range**

*Rahman, F.; Dutta, R.;*

Industrial Electronics Society, 2003. IECON '03. The 29th Annual Conference IEEE , Volume: 1 , 2-6 Nov. 2003

Pages:699 - 704 vol.1

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**15 Multiobjective optimal design of interior permanent magnet synchronous motors considering improved core loss formula**

*Dong-Joon Sim; Dong-Hyeok Cho; Hyun-Kyo Jung; Song-Yop Hahn;*

Electric Machines and Drives Conference Record, 1997, IEEE International , 1 May 1997

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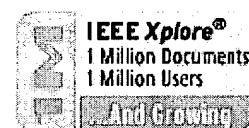
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Fung, W.L.; Chun, H.W.;

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Advanced Intelligent Mechatronics '97., IEEE/ASME International Conference on, 16-20 June 1997  
Pages:37
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4 **A mixed reality system with visual and tangible interaction capabilities application to evaluating automobile interior design**

Ohshima, T.; Kuroki, T.; Yamamoto, H.; Tamura, H.;

Mixed and Augmented Reality, 2003. Proceedings. The Second IEEE and ACM

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**5 Visual representation of natural language scene descriptions**

*Giunchiglia, E.; Armando, A.; Traverso, P.; Cimatti, A.;*

Systems, Man and Cybernetics, Part B, IEEE Transactions on , Volume: 26 , I  
4 , Aug. 1996

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[[Abstract](#)] [[PDF Full-Text \(1632 KB\)](#)] IEEE JNL

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**6 Assistant system for interior design using individual Kansei informa**

*Kawasumi, M.; Kokubun, M.; Kurahashi, T.; Iguchi, H.; Konishi, H.; Mukae, H.*  
SICE 2002. Proceedings of the 41st SICE Annual Conference , Volume: 1 , 5-  
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**7 Visualization of building interior design to reduce rework**

*Heng Li; Love, P.E.D.;*

Information Visualization, 1998. Proceedings. 1998 IEEE Conference on , 29-  
July 1998

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[[Abstract](#)] [[PDF Full-Text \(136 KB\)](#)] IEEE CNF

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## V<sup>2</sup>ID: virtual visual interior design system

Zhibin Lei Yufeng Liang Weicong Wang

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### Abstract:

In this paper we propose a novel system of semantic feature extraction and **interior** design and **decoration** application. The system, V<sup>2</sup>ID (virtual visual design), uses colored texture and spatial edge layout to obtain simple information of global room environment. We address the domain specific segmentation problem and the techniques for obtaining semantic features from a room environment. We also discuss heuristics for making use of these features (color, texture or shape) to retrieve objects from an existing database. The final resynthesized room environment with original scene and novel object from database is created for the purpose of animation and virtual room walkthrough.

### Index Terms:

computer animation content-based retrieval edge detection feature extraction image analysis image segmentation image texture virtual reality visual databases V<sup>2</sup>ID color colored texture database **decoration** domain specific segmentation problem commerce global room environment **interior design** resynthesized room environment semantic feature extraction semantic features shape spatial edge layout texture virtual room walkthrough virtual visual **interior design system**

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